45

Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: 1 Improvement of drains and resurfacing to roads in Hindu Samaja Road And Surrounding Sirke Apartment area in ward no.03, Attur

							Estimate Cost Rs.	100.00 Lakhs
Description of Items	**No**	**Length**	**Width**	**Depth**	**Quantity**	**Unit**	**Rate**	**Amount**
Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3). (Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
Basic rate	76.00							
11% AD-HOC	8.36							
Sub Total-1	84.36							
6% AW	5.06							
Sub Total-2	89.42							
Santoshnagara								
Top slab								
cross road - 1	2	24.00	1.00		48.00			
7th cross	2	218.00	1.00		436.00			
9th cross	2	550.00	1.00		1100.00			
cross road - 2	2	30.00	1.00		60.00			
cross road - 3	2	105.00	1.00		210.00			
cross road - 4	2	35.00	1.00		70.00			
cross road - 5, school entrance	2	24.00	1.00		48.00			
cross road - 6	2	32.00	1.00		64.00			
Hindu samaj road								
Neha Prakash Hospital	2	182.00	1.00		364.00			
Behind hospital	2	108.00	1.00		216.00			
Perpendicular hospital	2	185.00	1.00		370.00			
cross road - 2	2	134.00	1.00		268.00			
Drain slab								
cross road - 1	2	24.00	1.65		79.20			
7th cross	2	218.00	1.65		719.40			
9th cross	2	550.00	1.65		1815.00			
cross road - 2	2	30.00	1.65		99.00			
cross road - 3	2	105.00	1.65		346.50			
cross road - 4	2	35.00	1.65		115.50			
cross road - 5, school entrance	2	24.00	1.65		79.20			
cross road - 6	2	32.00	1.65		105.60			
Hindu samaj road								
Neha Prakash Hospital	2	182.00	1.65		600.60			
Behind hospital	2	108.00	1.65		356.40			
Perpendicular hospital	2	185.00	1.65		610.50			
Total Qty					**8180.90**			
Consider 30% of total Qty					**2454.27**			
					2454.27	**Sqm**	**89.42**	**219464.75**
2 Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5cm thick (Page No 25., I.No.5.31.1 of KPWD S.R 2016-17).								
Basic rate	628.00							
11% AD-HOC	69.08							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Sub Total-1	697.08							
6% AW	41.82							
Sub Total-2	738.90							
Consider 8% of Total qty of Item no -1					654.47			
					654.47	**Sqm**	**738.90**	**483592.50**
Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-								
Basic rate	2100.00							
	60	0.90	0.60		32.40			
					32.40	**Sqm**	**2100.00**	**68040.00**
KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD S.R 2016-17).								
Basic rate	82.00							
11% AD-HOC	9.02							
Sub Total-1	91.02							
6% AW	5.46							
Sub Total-2	96.48							
10km ld & lt, transport	100.00							
Sub Total-3	196.48							
Santoshnagara								
cross road - 1	2	24.00	0.55	0.50	13.20			
7th cross	2	218.00	0.55	0.50	119.90			
9th cross	2	550.00	0.55	0.50	302.50			
cross road - 2	2	30.00	0.55	0.50	16.50			
cross road - 3	2	105.00	0.55	0.50	57.75			
cross road - 4	2	35.00	0.55	0.50	19.25			
cross road - 5, school entrance	2	24.00	0.55	0.50	13.20			
cross road - 6	2	32.00	0.55	0.50	17.60			
cross road - 7	2	40.00	0.55	0.50	22.00			
Hindu samaj road								
Neha Prakash Hospital	2	182.00	0.55	0.50	100.10			
Behind hospital	2	108.00	0.55	0.50	59.40			
Perpendicular hospital	2	185.00	0.55	0.50	101.75			
cross road - 2	2	134.00	0.55	0.50	73.70			
culvert	4	6.50	1.50	1.20	46.80			
					963.65	**Cum**	**196.48**	**189339.11**
5 KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17								
Basic rate	5046.00							
11% AD-HOC	555.06							
Sub Total-1	5601.06							
6% AW	336.06							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Sub Total-2	5937.12							
culvert	4	6.50	1.50	0.15	5.85			
					5.85	**Cum**	**5937.12**	**34,732.17**
KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.23/I.5.9)/ PWD SR 2016-17								
Basic rate	5005.00							
11% AD-HOC	550.55							
Sub Total-1	5555.55							
6% AW	333.33							
Sub Total-2	5888.88							
culvert	8	6.50	0.45	0.70	16.38			
					16.38	**Cum**	**5888.88**	**96,459.90**
KSRB - 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates at 0.78cum and fine aggregates at 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation, plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. (P.No.12, I.No.4.6 of PW, P&IWTD SR 2016-17)								
Basic rate	5249.00							
11% AD-HOC	577.39							
Sub Total-1	5826.39							
6% AW	349.58							
Sub Total-2	6175.97							
culvert	8	6.50	0.45	0.10	2.34			
					2.34	**Cum**	**6175.97**	**14,451.78**
Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-(Data rate)								
Basic rate	5111.00							
	4	6.50	1.50		39.00			
					39.00	**Sqm**	**5111.00**	**199329.00**
KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications. MORTH Specification No.301(P.No. 143, I.No. 19.14)								
Basic rate	46.00							
11% AD-HOC	5.06							
Sub Total-1	51.06							
6% AW	3.06							
Sub Total-2	54.12							
10km ld & lt, transport	100.00							
Sub Total-3	154.12							
Santoshnagara								
cross road - 1	1	24.00	4.00	0.35	33.60			
7th cross	1	218.00	3.80	0.35	289.94			
9th cross	1	550.00	4.35	0.35	837.38			
cross road - 2	1	30.00	4.30	0.35	45.15			
cross road - 3	1	105.00	4.15	0.35	152.51			

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
oss road - 4	1	35.00	3.80	0.35	46.55			
cross road - 5, school entrance	1	24.00	4.00	0.35	33.60			
cross road - 6	1	32.00	6.00	0.35	67.20			
cross road - 7	1	40.00	3.50	0.35	49.00			
					1554.93	**Sqm**	**154.12**	**239651.02**
KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3(P.No. 149, I.No. 19.64)								
Basic rate	5.00							
11% AD-HOC	0.55							
Sub Total-1	5.55							
6% AW	0.33							
Sub Total-2	5.88							
Santoshnagara								
cross road - 1	1	24.00	4.00		96.00			
7th cross	1	218.00	3.80		828.40			
9th cross	1	550.00	4.35		2392.50			
cross road - 2	1	30.00	4.30		129.00			
cross road - 3	1	105.00	4.15		435.75			
cross road - 4	1	35.00	3.80		133.00			
cross road - 5, school entrance	1	24.00	4.00		96.00			
cross road - 6	1	32.00	6.00		192.00			
cross road - 7	1	40.00	3.50		140.00			
					4442.65	**Sqm**	**5.88**	**26,136.11**
1 KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
Santoshnagara								
Basic rate	1571.00							
11% AD-HOC	172.81							
Sub Total-1	1743.81							
6% AW	104.63							
Sub Total-2	1848.44							
cross road - 1	1	24.00	4.00	0.15	14.40			
7th cross	1	218.00	3.80	0.15	124.26			
9th cross	1	550.00	4.35	0.15	358.88			
cross road - 2	1	30.00	4.30	0.15	19.35			
cross road - 3	1	105.00	4.15	0.15	65.36			
cross road - 4	1	35.00	3.80	0.15	19.95			
cross road - 5, school entrance	1	24.00	4.00	0.15	14.40			
cross road - 6	1	32.00	6.00	0.15	28.80			
cross road - 7	1	40.00	3.50	0.15	21.00			
					666.40	**Cum**	**1848.44**	**1231794.86**

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
12	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)								
	Basic rate	1668.00							
	11% AD-HOC	183.48							
	Sub Total-1	1851.48							
	6% AW	111.09							
	Sub Total-2	1962.57							
	Santoshnagara								
	cross road - 1	1	24.00	4.00	0.20	19.20			
	7th cross	1	218.00	3.80	0.20	165.68			
	9th cross	1	550.00	4.35	0.20	478.50			
	cross road - 2	1	30.00	4.30	0.20	25.80			
	cross road - 3	1	105.00	4.15	0.20	87.15			
	cross road - 4	1	35.00	3.80	0.20	26.60			
	cross road - 5, school entrance	1	24.00	4.00	0.20	19.20			
	cross road - 6	1	32.00	6.00	0.20	38.40			
	cross road - 7	1	40.00	3.50	0.20	28.00			
	Hindu samaj road								
	Neha Prakash Hospital	1	90.00	1.00	0.20	18.00			
	Behind hospital	1	60.00	1.00	0.20	12.00			
						918.53	**Cum**	**1962.57**	**1802678.32**
13	Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)								
	Basic rate	26.00							
	11% AD-HOC	2.86							
	Sub Total-1	28.86							
	6% AW	1.73							
	Sub Total-2	30.59							
	Santoshnagara								
	cross road - 1	1	24.00	4.00		96.00			
	7th cross	1	218.00	3.80		828.40			
	9th cross	1	550.00	4.35		2392.50			
	cross road - 2	1	30.00	4.30		129.00			
	cross road - 3	1	105.00	4.15		435.75			
	cross road - 4	1	35.00	3.80		133.00			
	cross road - 5, school entrance	1	24.00	4.00		96.00			
	cross road - 6	1	32.00	6.00		192.00			
	cross road - 7	1	40.00	3.50		140.00			
	Profile correction								
	Hindu samaj road								
	Neha Prakash Hospital	1	182.00	3.00		546.00			
	Behind hospital	1	108.00	1.80		194.40			
	Perpendicular hospital	1	185.00	2.50		462.50			

No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	oss road - 2	1	134.00	2.20		294.80			
						5940.35	**Sqm**	**30.59**	**181724.81**
14	KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)								
	Basic rate	6717.00							
	11% AD-HOC	738.87							
	Sub Total-1	7455.87							
	6% AW	447.35							
	Sub Total-2	7903.22							
	Santoshnagara								
	cross road - 1	1	24.00	4.00	0.05	4.80			
	7th cross	1	218.00	3.80	0.05	41.42			
	9th cross	1	550.00	4.35	0.05	119.63			
	cross road - 2	1	30.00	4.30	0.05	6.45			
	cross road - 3	1	105.00	4.15	0.05	21.79			
	cross road - 4	1	35.00	3.80	0.05	6.65			
	cross road - 5, school entrance	1	24.00	4.00	0.05	4.80			
	cross road - 6	1	32.00	6.00	0.05	9.60			
	cross road - 7	1	40.00	3.50	0.05	7.00			
	Profile correction								
	Hindu samaj road								
	Neha Prakash Hospital	1	182.00	2.70	0.05	24.57			
	Behind hospital	1	108.00	1.80	0.05	9.72			
	Perpendicular hospital	1	185.00	2.50	0.05	23.13			
	cross road - 2	1	134.00	2.20	0.05	14.74			
						294.29	**Cum**	**7903.22**	**2325819.50**
15	KSRRB 500-7:Providing and applying tack coat with bitumen emulsion using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications.(P.No.160 & I.No.21.7)								
	Basic rate	11.00							
	11% AD-HOC	1.21							
	Sub Total-1	12.21							
	6% AW	0.73							
	Sub Total-2	12.94							
	Santoshnagara								
	cross road - 1	1	24.00	4.00		96.00			
	7th cross	1	218.00	3.80		828.40			
	9th cross	1	550.00	4.35		2392.50			
	cross road - 2	1	30.00	4.30		129.00			
	cross road - 3	1	105.00	4.15		435.75			
	cross road - 4	1	35.00	3.80		133.00			
	cross road - 5, school entrance	1	24.00	4.00		96.00			
	cross road - 6	1	32.00	6.00		192.00			